

7 May 1991

FL1JL-A

FILTER, BANDPASS

**1. GENERAL.** The procurement requires a set of tunable bandpass filters that operate in a frequency range of 48 to 3,000 MHz.

**2. CLASSIFICATION.** Type II, Class 6, Style EP, and Color R in accordance with MIL-T-28800 for shipboard applications. Power requirements are not invoked. EMI requirements are not invoked.

**3. OPERATIONAL REQUIREMENTS.** The filter kit shall meet the requirements specified below.

**3.1 Frequency range.** 48 to 3000 MHz.

**3.2 Impedance.** 50 ohms nominal.

**3.3 Connectors.** Type N female.

**3.4 Insertion loss.** 1.5 dB maximum.

**3.5 Power rating.** 50 watts continuous.

**3.6 VSWR.** 1.5 maximum.

**3.7 Passband width.** Passband width values of the filters shall be in accordance with table 1.

TABLE 1. Passband Width Values.

<u>Attenuation</u>	<u>Bandwidth</u>
3 dB	5% of center frequency $\pm 1\%$
30 dB	11% of center frequency $\pm 1\%$
50 dB	17.5% of center frequency $\pm 1\%$

**4. GENERAL REQUIREMENTS.**

**4.1 Weight.** 27.2 kg (60 lbs).

**4.2 Lithium batteries.** Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.

**4.3 Transit case.** The Style P transit case shall provide protection and have specific positions for each component of the filter kit. The case shall be in compliance with the requirements set forth in MIL-T-28800.